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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/174,002	BOCH ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Phuongchau Ba Nguyen	2665	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10-12-04 Amendment & 12-30-04 interview.
2. ☒ The allowed claim(s) is/are 26-29,32-33,30-31,34-42,44; Renumbered as 1-18 respectively.
3. ☒ The drawings filed on 3-30-99 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date <u>12-30-04</u> .</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
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### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Zegeer on 12-30-04.

3. The application has been amended as follows:

**Claim 42, line 12:**

--- , wherein each of said cells in sub-divided into multiple sectors and said multi-services switch is equipped with second radio interface cards for each sector, said second radio interface cards for wireless, bi-directional communication with network interface units (NIUs) within each sector--- had been inserted after the word "link".

**Claim 43 had been canceled.**

**Claim 44, line 1:**

"43" had been changed to ---42---

4. The following is an examiner's statement of reasons for allowance:

Regarding claims 26-33, the prior art of the record fails to teach or suggest an interface system at a base station in a cell within a cellular wireless network for providing bi-directional wireless communications to Network Interface Units (NIUs) at customer sites within the cell, the interface system comprising "a multi-services switch equipped with one or more first radio interfaces for providing wireless communications between the base station and the NIUs via said highly directional antenna and one or more second radio interface cards for providing the point to point inter-cell radio link," in combination with other limitations, as specified in independent claim 26.

Regarding claims 34-41, the prior art of the record fails to teach or suggest a base station in a cell of a cellular, wireless communication network for providing wireless, bi-directional communication with network interface units (NIUs) within the cell, wherein "a multi-service switch equipped with a first radio interface card for providing the wireless, bi-directional communication between the base station and the NIUs and a second interface card for providing the point to point radio inter-cell link," in combination with other limitations, as specified in independent claim 34.

Regarding claims 42 and 44, the prior art of the record fails to teach or suggest a method for providing communications between base stations in a cellular, wireless network having multiple cells, each of the multiple cells having a base station, the method comprising "providing a directional antenna for each multi-services switch to support point to point bi-directional communication between base stations over a radio inter-cell link, and said multi-services switch is equipped with second radio interface

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cards for each sector, said second radio interface cards for wireless, bi-directional communication with network interface units (NIUs) within each sector," , " in combination with other limitations, as specified in independent claim 42.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchau Ba Nguyen whose telephone number is 571-272-3148. The examiner can normally be reached on Monday-Friday 10:00AM-3:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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*PN*

Phuongchau Ba Nguyen  
Examiner  
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**DUCHO  
PRIMARY EXAMINER**

*Duchou*

*1-5-05*